

KUTRILIN





Description and scope

KUTRITard is liquid set retarding admixture with with simultaneous plasticizing of concrete.

PHYSICAL - CHEMICAL CHARACTERISTICS

Appearance	Bright-yellow liquid
Density(20 °C), kg/m3	1030 – 1060
pH value	6,0-8,0
Chlorides	Do not contain

KUTRITard at normal temperatures delays setting of concrete from 3 to 48 hours, depending on the dosage.

Higher ambient temperature oscillations during concrete installation significantly affect the setting process. Increasing the temperature reduces retardation and vice versa.

By slowing down setting time, **KUTRITard** causes uniform crystallization of the concrete structure, which results in higher strengths compared to concrete of the same composition without additives. The strength gain begins immediately after the retardation period ends, and later exceeds the compessive value of the reference concrete.

KUTRITard also has a plasticizing effect that also make easier installation of concrete.

KUTRITard does not increase the amount of air drawn into the concrete and does not corrode the steel in the concrete.

Application

KUTRITard enables:

✓ control of setting time in long time intervals and in conditions of elevated temperatures



- ✓ long-term transport of concrete with mixers and pumps
- concreting of large monolithic structures, whereby by gradually reducing the dosage of KUTRITard, the simultaneous setting/hardening of the concrete mass is achieved.

In this way, the occurrence of large internal stresses and all the consequences that arise from them is avoided. It is known that the cement retardation and acceleration is strongly depend on the type of cement and temperature.

Therefore, for the desired retardation effect, it is necessary to experimentally determine the optimal dosage of **KUTRITard** with the use of all components intended for concrete. If any component of the concrete changes, especially the cement, during construction, it is mandatory to check the concrete recipe.

Dosage

KUTRITard is dosed 0.3 - 1.0% by weight of binder, depending on the required retardation time. Doses greater than 1% can cause side effects.

KUTRITard is added to the concrete preparation water or directly to the concrete mixer.

Packing and storage

KUTRITard can be purchased in cans of 50 kg, 200 kg barrels, IBC containers of 1100 kg or in larger quantities.

KUTRITard is stable for 6 months in tightly sealed packaging.

Replaces all previous releases for this product. December, 2023.

CONFIRMATION OF	CONFORMITY		F PERFORMANCE -2790-010
2477 KUTRILIN d.o.o. 1 Radnička ces 20 2477-CPR-2 HRN EN 934 Set retarding a	- 0000 Zagreb ota 173P 790-010 -2:2012	 Inique identification mark of product: KUTRITard Intended use of the construction product acc to EN 934-2: Set retarding admixture Name, registered trade name or registered trademark and contact address of the producer: KUTRILIN d.o.o., Radnička cesta 173P, HR-10000 Zagreb The system or systems for assessing and verifying the stability of the properties of the construction product, as set out in Annex V.CPR: System 2+ The product is in compliance with the harmonized standard: EN 934-2:2009+A1:2012 Admixtures for concrete, mortar and grout - Part 2: Concrete admixtures Name and identification number of the notified body: Institut IGH d.d., NB 2477 Evaluation of characteristics in relation to standard 	
KUTRIT	ard	requirements An imporatant feature	Property
Chloride ion content	≤0,1% by mass	Chloride ion content	≤0,1% by mass ≤2,0% by mass
Alkali content	≤2,0% by mass	Corrosion behaviour	No corrosion promotion effects on steel embedded in concrete
Corrosion behaviour promotion effects on steel er	No corrosion nbedded in concrete	Compressive strenght T8	Pass
Hazardous substances	Do not content	Air content in fresh concrete (entrained air) T8	Pass
		Set retarding time T8	Pass

7. The product type described in item 1 is in compliance with the stated properties from item 6. Only the producer designated in point 3 is responsible for issuing the declaration of performance.

December, 2023.